



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due
PO040109	MEC002-VU	2	1	Net 30	M304B1.000X1.000	304 Bar 1.00 X 1.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				12	6/20/2018	12		S080448	Stock	6/12/2018	\$ 23.26 / ft	0	
Total:										12		12							

Plex 6/12/2018 2:16 PM Dart.Dubois.Pascal



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No: 3618979

Ship From:	A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	Sold To:	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Ship To:	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	Deliver To:	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
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Date Shipped	11-JUN-18	F.O.B.	ORIGIN	Freight Terms	Prepaid	Carrier	MANITOU LIN	BOL No	3618979-2
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Shipment Details

Final Destination Branch - TOR

Order No	Line No	Item No	Description
5163035	1	8560	1.0000.SQ.304/304L.STAINLESS.HR.ANN.PICKLE.132.0000-156.0000 SPECIFICATIONS: ASTM A276
Purchase Order No	Part Number	Ordered Qty	Invoice Qty
40109		12.00 FT	12.5833 FT
Details			
ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS			

Delivery No.	121869020	Mill/Source	VALBRUNA CORPORATION	Heat Number	2760101	Mech Id	PCS	Width (IN)		Length (IN)	151.0000	Shipped Qty(LBS)	42.7833
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We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date: JUN 11 2018

Name:



85854992

Castle Metals

HEAT NUMBER: 276010
MECHANICAL ID: _____
ITEM CODE: 8560
PO/LINE NUMBER: 437740
RECEIPT NUMBER: _____
SUPPLIER: VALBRUNA
SPECIFICATION: _____
LCS: NO
COMMENT: _____
APPROVED: AMB



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO040109

Supplier: MEC002-VU
Metaux Castle
P.O. Box 4090 Stn A
Toronto
ON
M5W OE9 Canada

PO No: PO040109

PO Date: 6/5/18

Due Date: 6/20/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

E-MAILED
JUN 8 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	M7075T6S1.000X5.000		7075-T6 Sheet 1" Thick Plate X 5" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	6/20/18	24 ft	0 ft	24 ft	\$41.05/ft	\$985.20
2	M304B1.000X1.000		304 Bar 1.00 X 1.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	6/20/18	12 ft	0 ft	12 ft	\$23.26/ft	\$279.12
3	M303B3.000X6.000		AISI 303 SS Bar 3.000" x 6.000" : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	6/20/18	4 ft	0 ft	4 ft	\$139.9725/ft	\$559.89
4	M303B2.000X1.750		303 Bar 2" X 1.750" : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	6/20/18	12 ft	0 ft	12 ft	\$111.75/ft	\$1,341.00

Grand Total: \$3,165.21

Order Notes

[Handwritten signature]

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Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/5/18 12:19 PM dart.lavoie.chantal

Chantal Lavoie

From: Desbiens, Marc <mdesbien@amcastle.com>
Sent: Friday, June 01, 2018 8:17 AM
To: Chantal Lavoie
Subject: RE: quote

Good Morning Chantal,

price and delivery on mat'l.

7075t6 plate 1" x 5" x 24 ft \$ 41.05 Ft 2 weeks

304 bar 1 x 1 x 12 ft \$ 23.26 Ft 2 weeks

~~304 bar 0.500" x 12" x 6 ft~~ Must regret, not available

303 bar 3" x 6" x 4 ft \$ 559.89 Ft 2 weeks

303 bar 2" x 1.750" x 12 ft \$ 111.75 Ft 2 weeks

Thanks

Marc Desbiens
Inside sales representative
Castle Metals, Montreal, QC
Direct line 514-795-8176
1-800-806-6660 ext 52226
Fax # 1-855-892-6370

Customized Supply Chain Solutions for Your Metal Needs

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304B1.000 X 1.000

PO / BATCH NO.: 040109/5080448

DATE: JUN 12 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 121
 QUANTITY INSPECTED: 121
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	<u>Astin A276</u>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	<u>Heat # 276010</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-89</u> <u>JUN 12 2018</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE: AISI 303 NOT ACCEPTABLE)

△ SPECIFICATION: ASTM A276 OR ASTM A240
PART NUMBER: M304B1.TTT | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
AND "WW.WWW" = WIDTH IN INCHES

△ EG. 0.5" x 3.0" BAR = M304B0.500X03.000
EG. 0.5" x 12.0" PLATE = M304B0.500X12.000

RELEASED
2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL. ADDED PLATE RELATED SPECIFICATIONS AND CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10.11.25
B	REFORMAT DWG. ADD SPECS (ZN D6-1). REF PAR 08-020A	CP	09.07.15
A	NEW ISSUE	PH	05.06.10
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.11.25		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304B			
TITLE 304/316 BAR/PLATE			
REV. C SHEET 1 OF 1			
SCALE NTS			
DATE 10.11.25			
COPYRIGHT © 2005 BY DART AEROSPACE LTD THIS DOCUMENT IS UNCLASSIFIED AND NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			



Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Telefono 0444.988211 - Fax 0444.983836
Stab. 39100 BOLZANO (Italia) - Via A. Volta, 4/37
Telefono 0471.924111 - Fax 0471.924497

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004), 3.1 / ISO 10474 (2013), 3.1

Certificato nr. MEST202596 / 2018 /
Prüfung/Test/Essai

Cliente / Besteller/Purchaser/Cliet
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801 - FORT WAYNE, IN 46801 - US

Stato di fornitura /
Lieferzustand
Delivery state
Etat de livraison
Hot rolled Descaled Annealed Hot
rolled

Produttore
Hersteller/Item/Usine productrice

ACCIAIERIE VALBRUNA S.P.A.

Ordine nr: 55651 437740 CASTLE
Bestell
Your order
Commande

Tipo di Elaborazione E+AOD
Erweiterungsart
Melting process
Mode d'élaboration

Marchi di Fabbrica:
Zeichen des Lieferwerkes
Trade marks
Sigles de l'usine productrice



Conferma ordine nr: EI17012730
Werkst/Oui Order/Ref nr

Qualità: T-304/304L #8560
Werkstoff/Grade/Qualité

Punzone del Collaudatore
Stempel des Werksachverständigen
Inspector's stamp/Poinçon de l'essayeur

MR

Avviso di Spedizione: D-VI18004726
Lieferanfrage/Packing list/B

Marca: AISI
Markenbezeichnung
Brand / Nuance

Punzonatura: 304/304L
Kennzeichnung
Marking
Marquage

SPECIFICHE:

Note

Anforderungen / Requirements / Exigences

Anzeichnungen / Notes / Notes

3304-23 49 304 A
AISI 304
AMS 5639 H S30400 A
AMS-QQ-S-763 D 304 A
ASME SA182 2015 S30400 A (0)
ASME SA479 2015 S30400 A (1)
ASTM A182 2016 S30400 A (2)
ASTM A262 2015 PRACTICE E
ASTM A276 2017 S30400 A
ASTM A479 2017 S30400 A

(0)SECTION II PT.A 2015 EDITION For products machined directly from bar refer to ASME SA479.
(1)SECTION II PT.A 2015 EDITION
(2)For products machined directly from bar refer also to ASTM A479.

Tolleranza: ASTM A484-16 TABLE 3

Poz. nr. Pos. nr. nr. de poz.	Oggetto Objekt Produkt description Objekt description	Dimensioni - in Abmessungen Dimensions Dimensions	Lunghezza - in Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stücke Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losch Lot nr. Lot nr.
0010	Square	1,0000 x 1,0000	144/ 153	276010		3.091	802407860

TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf lieferbarem produkt test a l'état de fourniture Prueba sobre el material así como entregado

TEST	Provetta / Probe Spannung/Entspannung Längs dem Spitz Brüche Dorn Dorn Wahl Dorn Dorn Längs dem Spitz	σ _F	Snervamento Biegegrenze Yield Stress Lower elastic limit Rp 0,2%	Snervamento Biegegrenze Yield Stress Lower elastic limit	Resistenza Zugfestigkeit Tensile strength Resistance à traction Rm	Allungamento Bruchdehnung Elongation Allongement E 4d	Strizione Ermüdung Production of stress Striction	Resilienza Hartschlagarbeit Impact Value Resilience	Durezza Härte Hardness Dureté HB
Valori richiesti Anforderungen/Required values Valeurs demandées		min max	30	-	75 115	- 40	- 50	-	140 223
A	12.5	68	L	41	86	59	70		179

TEST ALLO STATO DI FORNITURA

Test on delivery condition / Prüfung auf lieferbarem produkt / Test a l'état de fourniture / Prueba sobre el material así como entregado

TEST	min	max
A Grain size for ASTM E112		6

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / Heat Schmelze/Coulée	min - max	0.000	1.00	2.00	18.00	1.00	1.00	8.00	0.040	0.030	0.100				
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %				
276010	0.012	0.40	1.87	18.40	0.30	0.29	8.29	0.098	0.027	0.024	0.091				

Vicenza, 14/02/18

VCO008 - MEST202596

(Mod. MCE2)

Il collaudatore di stabilimento / der Werksachverständige / Works inspector / L'agent d'usine

M. RIZZOTTI

Pagina - 1 di 2



CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: **EN 10204 (2004), 3.1 / ISO 10474 (2013), 3.1**

Certificato nr. **MEST202596 / 2018 /**
Prüfung/Test/Esse:

Cliente / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801 - FORT WAYNE, IN 46801 - US

Stato di fornitura: **Hot rolled Descaled Annealed Hot rolled**
Lieferzustand:
Delivery state:
Etat de livraison:

Produttore:
Hersteller/Fabrik/Usine productrice

ACCIAIERIE VALBRUNA S.P.A.

Ordine nr. **55651 437740 CASTLE**
Bestell:
Your order:
Commande:

Tipo di Elaborazione: **E+AOD**
Erstschmelzungsart:
Melting process:
Mode d'élaboration:

Marchi di Fabbrica:
Zeichen des Lieferanten:
Trade marks:
Sigles de l'usine productrice:



Conferma ordine nr. **EI17012730**
Werk-/Our Order/Ref. nr.:

Qualità: **T-304/304L #8560**
Werkstoff/Qualitätsstufe:

Punzone del Collaudatore:
Stempel des Werkstoffverständigen:
Inspector's stamp/Pompon de l'essayeur:

MR

Avviso di Spedizione: **D-VI18004726**
Lieferanweisung/Packing instruction:

Marca: **AISI**
Markenbezeichnung:
Brand / Nuance:

Punzonatura: **304/304L**
Markierung:
Marquage:

Corrosion test in 16% sulfuric acid and copper sulfate solutions

Test standard: **ASTM A262-Practice E**

Test	Heat treatment before test	Length of Period (h)	Test temp (°C)	Bend Angle (°)	Ø spindle (mm)	Result of visual inspection at 20 x magnification after bend test	Result
Intergranular corrosion	Sensitization	15	boil	180	5	Absence of cracks	SATISFACTORY

Annealing temperature: **1940°F for 1 h/water.**
Macroetch test: **ok.**
Reduction ratio = **50,2 : 1**
Material is **DFARS Compliant**

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind d. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été trouvé conforme aux exigences

Controllo antimescolanza: **OK**
Verwechslungsprüfung: **spezialanalytisch durchgeführt**
Anmischungstest performed: **OK**
Contrôle entremêlage fait: **r. s. s.**

Controllo visivo e dimensionale: **soddisfa le esigenze**
Besichtigung und Ausmessung: **ohne Beanstandung**
Visual inspection and dimensional check: **satisfactory**
Contrôle visuel et dimensionnel: **satisfaisant**

Melted and manufactured in Italy

No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER ACCORDING TO ISO 9001 : 2008, IATF 16949 : 2016, AS 9100C

The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1 s. 4.3 and 2014/68/EU by TÜV and LLOYD'S
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.
Maximal and/or Valplus grades/products are manufactured with ladle techniques to control composition, distribution, size and shape of non-metallic inclusions for improved machinability.
The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, **14/02/18**

VCO008 - MEST202596

(Mod. MCE2)

Il collaudatore di stabilimento / der Werkstoffverständige / Works Inspector / L'agent d'usine

M. RIZZOTTO

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